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70-480

Programming in HTML5 with JavaScript and CSS3
QUESTION & ANSWERS

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QUESTION: 1

DRAG DROP

You are validating user input by using JavaScript and regular expressions. A group of predefined regular expressions will validate two input fields:

. An email address in a function named validateEmail (for example, firstname@contoso.com) . A nine-digit number that allows optional hyphens after the second and fifth character in a function named validateSSN(for example, 555555555 or

555-55-5555) You need to use the correct expression to validate the input.

Which expression should you insert into each function? (To answer, drag the appropriate regular expression statement to the correct location. Each regular expression statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
  var ssnPattern =


  return ssnPattern.test(userinput);
}


function validateEmail(userinput){
  var emailPattern =


  return emailPattern.test(userinput);
}
```

Answer:

```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
  var ssnPattern =
        /^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;

  return ssnPattern.test(userinput);
}
```

```
function validateEmail(userinput){
  var emailPattern =
        /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

  return emailPattern.test(userinput);
}
```

QUESTION: 2

You are developing a customer web form that includes the following HTML.
<input id="txtValue" type="text" />
A customer must enter a valid age in the text box prior to submitting the form.You need to add validation to
the control.   Which code segment should you use?

```
C A.  function validate() {
        var value = $("#txtValue").text();
        var regex = /^[\d\,\.]*$/;
        if (!regex.test(value) || name == "")
          alert("please enter valid value");
        return;
      }


C B.  function validate() {
        var name = $("#txtValue").val();
        if (name == null || name == "")
          alert("please enter valid value");
          return;
      }


C C.  function validate() {
        var name = $("#txtValue").text();
        if (name == null || name == "")
          alert("please enter valid value");
          return;
        }


C D.  function validate() {
        var value = $("#txtValue").val();
        var regex = /^[\d\,\.]*$/;
        if (!regex.test(value) || value == "")
          alert("please enter valid value");
        return;
      }

   return emailPattern.test(userinput);

 }
```

A. Option A B. Option B C. Option C D. Option D

Answer: D

QUESTION: 3

You are developing a customer contact form that will be displayed on a page of a company's website. The page collects information about the customer.   If a customer enters a value before submitting the form, it must be a valid email address.   You need to

ensure that the data validation requirement is met. What should you use?

A. <input name="email" type="url"/>
B. <input name="email" type="text" required="required"/> C. <input name="email" type="text"/>
D. <input name="email" type="email"/>

Answer: D

QUESTION: 4

DRAG DROP
You are developing a form that captures a user's email address by using HTML5 and jQuery.   The form must capture the email address and return it as a query string parameter. The query string parameter must display the @ symbol that is used in the email address.   You need to implement this functionality.   How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer area. Each code segment may be used once, more than once, or not at all.
You may need to drag the split bar between panes or scroll to view content.)

```
str = $("form").serialize();

str = decodeURIComponent(str);

str = $("form").contents.toString();

str = $("form").toLocaleString();

str = decodeURI(str);
```

```html
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
  <form>
  <input type="text" name="email" />
  <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
       var str;



       return true;
    });
  </script>
</body>
</html>
```

Answer:

```
str = $("form").serialize();

str = decodeURIComponent(str);

str = $("form").contents.toString();

str = $("form").toLocaleString();

str = decodeURI(str);
```

```html
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
<body>
  <form>
  <input type="text" name="email" />
  <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
      var str;

      str = $("form").serialize();

      str = decodeURIComponent(str);

      return true;
    });
  </script>
</body>
</html>
```

QUESTION: 5

You are developing an application that consumes a Windows Communication Foundation (WCF) service.
The application interacts with the service by using the following code. (Line numbers are included for
reference only.)

```
01 <script>
02    function getCountry(country) {
03       $.ajax({
04        type: "POST",
05          contentType: "application/json; charset=utf-8",
06          url: "http://contoso.com/Service.svc/GetCountry",
07          data: '{"Country":' + country + '}',
08          dataType: "json",
09          success: OnSuccess,
10          error: OnError
11
12        });
13     }
14    function OnSuccess(data, status) {
15    ...
16    }
17    function OnError(request, status, error) {
18    ...
19    }
20 </script>
```

You need to authenticate to the WCF service.   What should you do?

A. At line 11, add the following lines of code. , username: your username, password: yourpassword

B. At line 11, add the following line of code. ,credentials: prompt

C. At line 06, replace the code with the following line of code. url: "http://contoso.com/Service.svc/GetCountry?
Username=username&password=psssword",

D. At line 11, add the following line of code. The username and password will be stored in an XML file. ,credentials: credentials.xml

Answer: A

QUESTION: 6

You are developing a web page that enables customers to upload documents to a web server. The page includes an HTML5 PROGRESS element named progressBar that displays information about the status of the upload. The page includes the following code. (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 var progressBar = $("#progressBar");
03
04 function(e) {
05   if (e.lengthComputable) {
06     progressBar.value = (e.loaded / e.total) * 100;
07     progressBar.textContent = progressBar.value;
08   }};
```

An event handler must be attached to the request object to update the PROGRESS element on the page. You need to ensure that the status of the upload is displayed in the progress bar. Which line of code should you insert at line 03?

A. xhr.upload.onloadeddata = B. xhr.upload.onplaying =
C. xhr.upload.onseeking = D. xhr.upload.onprogress =

Answer: D

QUESTION: 7

You are developing a customer web form that includes the following HTML. <label id="txtValue"X/label> Information from the web form is submitted to a web service.

The web service returns the following JSON object.
{
"Confirmation": "1234", "FirstName": "John"
}
You need to display the Confirmation number from the JSON response in the txtValue label field. Which JavaScript code segment should you use?

A. $("#txtValue").val = (JSONObject.Confirmation); B. $("#txtValue").val (JSONObject.Confirmation);
C. $("#txtValue").text = (JSONObject.Confirmation); D. $("#txtValue").text (JSONObject.Confirmation);

Answer: D

QUESTION: 8

HOTSPOT
You are developing a web application that retrieves data from a web service. The data being retrieved is a custom binary datatype named bint. The data can also be represented in XML.   Two existing methods named parseXml() and parseBint() are defined on the page.   The application must: . Retrieve and parse data from the web service using binary format if possible   . Retrieve and parse the data from the web service using XML when binary format is not possible   You need to develop the application to meet the requirements.   What should you do? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
var request = $.ajax({
  uri: '/',
```

if (request.getResponseHeader("Content-Type") == "application/bint")	▼

| if (request.getResponseHeader("Content-Type") == "application/bint") |
| if (type == "application/bint") |
| if (request.mimeType == "application/bint") |
| accepts: 'application/bint, text/xml', |
| contentType: 'application/bint, text/xml', |
| dataType: 'application/bint, text/xml', |

```
dataFilter: function (data, type) {
```

if (request.getResponseHeader("Content-Type") == "application/bint")	▼

| if (request.getResponseHeader("Content-Type") == "application/bint") |
| if (type == "application/bint") |
| if (request.mimeType == "application/bint") |
| accepts: 'application/bint, text/xml', |
| contentType: 'application/bint, text/xml', |
| dataType: 'application/bint, text/xml', |

```
      return parseBint(data);
    else
      return parseXml(data);
  },
  success: function (data) {
    start(data);
  }
});
```

Answer:

```
var request = $.ajax({
  uri: '/',
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
```
```
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
dataFilter: function (data, type) {
```

```
if (request.getResponseHeader("Content-Type") == "application/bint")    ▼
```
```
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',
```

```
      return parseBint(data);
    else
      return parseXml(data);
  },
  success: function (data) {
    start(data);
  }
});
```

QUESTION: 9

You are developing a customer web form that includes the following HTML.
<input id = "txtValue" />   A customer must enter a value in the text box prior to submitting the form.   You
need to add validation to the text box control.
Which HTML should you use?

A. <input id="txtValue" type="text" required="required"/>
B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" /> C. <input id="txtValue" type="required" />
D. <input id="txtValue" type="required" autocomplete="on" />

Answer: A

QUESTION: 10

DRAG DROP
You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age. You have the following requirements:
. All runners must enter their age. . Applications must not be accepted from runners
less than 18 years of age or greater than 90 years. . The slider control must be set to the average age (37) of all registered runners when the page is first displayed.
You need to ensure that the slider control meets the requirements.
What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

range
slider
0
18
90
100
37
avgAge()
default
value
required
optional

```
<input type="          "
     min="          "     max="          "

     step="5"          ="          "

          />
```

Answer:

range	
slider	
0	
18	
90	
100	
37	
avgAge()	
default	
value	
required	
optional	

```
<input type=" range "
    min=" 18 "      max=" 90 "
    step="5" value =" 37 "

    required    />
```

QUESTION: 11

You are developing an HTML5 web application that displays the current temperature whenever a button is clicked. The following code provides this functionality.

```
function Loader() {
  this.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
   status = newStatus;
  };
}

var loader = new Loader();

$(function () {
  $("#loadTemp").click(function (eventData) {
    loader.temp = loadTemp();
    loader.updateStatus("done");
  });
});
```

When the temperature is loaded, the status property on the loader instance does not change. You need to ensure that the status property on the loader instance is updated when the temperature is loaded. Which code segment should you use to replace the

Loader function?

```
C A    function Loader () {
         this.status = "ready";
         this.temp = 50;
         this.updateStatus = function (newStatus) {
           this.status = newStatus;
         };
       }
```

```
C B.   function Loader () {
         this.prototype.status = "ready";
         this.temp = 50;
         this.updateStatus = function (newStatus) {
           this.status = newStatus;
         };
       }
```

```
C C.   function Loader () {
         status = "ready";
         this.temp = 50;
         this.updateStatus = function (newStatus) {
           status = newStatus;
         };
       }
```

```
C D.   function Loader () {
         window.status = "ready";
         this.temp = 50;
         this.updateStatus = function (newStatus) {
           status = newStatus;
         };
       }
```

A. Option A B. Option B C. Option C D. Option D

Answer: A

QUESTION: 12

You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited Pay Employee method. The Employee

class is defined as follows. function Employee() {} Employee.prototype.PayEmployee = function ( ){
alertt'Hi there!');
}
Future instances of Consultant must be created with the overridden method. You need to write the code to
implement the Consultant class.
Which code segments should you use? (Each correct answer presents part of the solution. Choose two.)

A. Consultant.PayEmployee = function ()
{
alert('Pay Consulant');
}
B. Consultant.prototype.PayEmployee = function ()
{
alert('Pay Consultant');
}
C. function Consultant () { Employee.call(this);
}
Consultant.prototype = new Employee(); Consultant.prototype.constructor = Consultant;
D. function Consultant() { Employee.call(this); } Consultant.prototype.constructor = Consultant.create;

Answer: B, C

QUESTION: 13

You are modifying an existing web page. The page is being optimized for accessibility. The current page
contains the following HTML.

```
<ul>
   <li><a href="">Home</a></li>
   <li><a href="">Sales</a></li>
   <li><a href="">Operations</a></li>
</ul>
```

Standards-compliant screen readers must be able to identify the links contained within the navigation structure
automatically. You need to create the navigation link structure in the page. With which container tags
should you wrap the existing markup?

A. <navmap> </navmap> B. <div id="nav"> </div>

C. <nav> </nav> D. <map> </map>

Answer: C

QUESTION: 14

HOTSPOT

You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets. You have the following requirements: Users must be able to save information in the application about their favorite destination airport. . The airport information must be displayed in the destination text box whenever the user returns to the page. You need to develop the site to meet the requirements. Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
```

var dest = localStorage.destination; ▼
var dest = localStorage.destination;
localStorage.destination = dest;
var dest = sessionStorage.destination;
sessionStorage.destination = dest;

```
      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;
```

var dest = localStorage.destination; ▼
var dest = localStorage.destination;
localStorage.destination = dest;
var dest = sessionStorage.destination;
sessionStorage.destination = dest;

```
    }
  </script>
</body>
```

Answer:

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
```

var dest = localStorage.destination;	▼
var dest = localStorage.destination;	
localStorage.destination = dest;	
var dest = sessionStorage.destination;	
sessionStorage.destination = dest;	

```
      if (dest != null)
         document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
       var dest = document.getElementById(id).value;
```
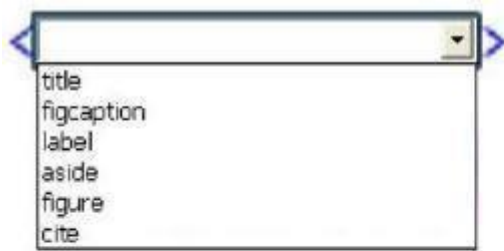
var dest = localStorage.destination;	▼
var dest = localStorage.destination;	
localStorage.destination = dest;	
var dest = sessionStorage.destination;	
sessionStorage.destination = dest;	

```
    }
  </script>
</body>
```
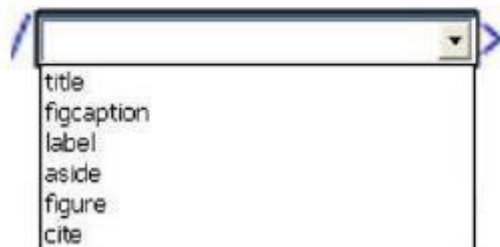
QUESTION: 15

HOTSPOT
You are developing an HTML5 web application for displaying encyclopedia entries. Each encyclopedia entry has an associated image that is referred to in the entry. You need to display the image by using the correct semantic markup. What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)
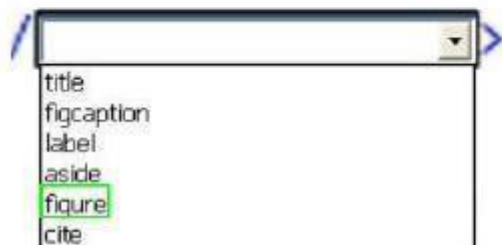
Dropdown options: title, figcaption, label, aside, figure, cite

Dropdown options: title, figcaption, label, aside, figure, cite

Answer:

title
figcaption
label
aside
figure
cite

`<img src="details.png" />`

title
figcaption
label
aside
figure
cite

Image description

title
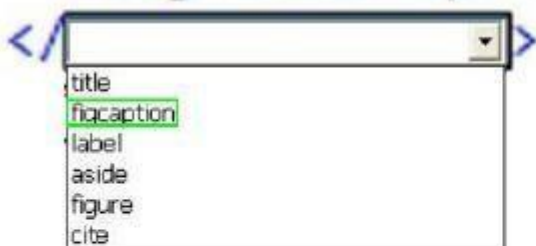**figcaption**
label
aside
figure
cite

title
figcaption
label
aside
figure
cite

QUESTION: 16

You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the Get Commission () method. You need to ensure that all future instances of the Customer object implement the Get Commission () method.   Which code segment should you use?

```
C A.  Customer.apply.GetCommission() = function()
      {
        alert('payroll');
      }


C B.  Customer.prototype.GetCommission() = function Customer.GetCommission() ()
      {
        alert('payroll');
      }


C C.  Customer.GetCommission() = function (){
        alert('payroll');
      }


C D.  Customer.prototype.GetCommission() = function ()
      {
        alert('payroll');
      }
```

A. Option A B. Option B C. Option C D. Option D

Answer: D

QUESTION: 17

You are developing a web form that includes the following code.

```
<div id="dynamicForm">
  <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicForm');" >
</div>
```

When a user selects the check box, an input text box must be added to the page dynamically.   You need to ensure that the text box is added. Which function should you use?

○ A.   function ShowInputBox(divName)
        {
            var newInputDiv = document.createElement('div');
            newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
            document.getElementById(newInputDiv).appendChild(divName);
        }

○ B.   function ShowInputBox(divName)
        {
            var newInputDiv = document.createElement('div');
            newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
            document.getElementById(divName).appendChild(newInputDiv);
        }

○ C.   function ShowInputBox(divName)
        {
            var newInputDiv = document.createElement('div');
            newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
            document.getElementById(divName).applyElement (newInputDiv);
        }

○ D.   function ShowInputBox(divName)
        {
            var newInputDiv = document.createElement('div');
            newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
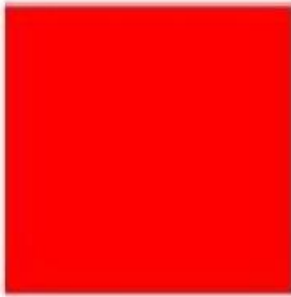   document.getElementById(newInputDiv).applyElement (divName);
        }

A. Option A B. Option B C. Option C D. Option D

Answer: B

QUESTION: 18

HOTSPOT
An HTML page has a canvas element. You need to draw a red rectangle on the canvas element dynamically.
The rectangle should resemble the following graphic.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
<!DOCTYPE html>

<html>

<body>

    <canvas id="mycanvas" width="300" height="300"></canvas>

    <script type="text/javascript">
```

context.fillRect(50, 50, 100, 100);	▼

context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();

```
    var context = canvas.getContext('2d');
```

context.fillRect(50, 50, 100, 100);	▼

context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();

context.fillRect(50, 50, 100, 100);	▼

context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();

```
    </script>

</body>

</html>
```

Answer:

```
<!DOCTYPE html>

<html>

<body>

    <canvas id="mycanvas" width="300" height="300"></canvas>

    <script type="text/javascript">
```

context.fillRect(50, 50, 100, 100);	▼
context.fillRect(50, 50, 100, 100);	
context.fillStyle = "rgb(255, 0, 0)";	
var canvas = document.getElementById('mycanvas');	
var canvas = document.BeginPath();	

```
    var context = canvas.getContext('2d');
```

context.fillRect(50, 50, 100, 100);	▼
context.fillRect(50, 50, 100, 100);	
context.fillStyle = "rgb(255, 0, 0)";	
var canvas = document.getElementById('mycanvas');	
var canvas = document.BeginPath();	

context.fillRect(50, 50, 100, 100);	▼
context.fillRect(50, 50, 100, 100);	
context.fillStyle = "rgb(255, 0, 0)";	
var canvas = document.getElementById('mycanvas');	
var canvas = document.BeginPath();	

```
    </script>

</body>

</html>
```

QUESTION: 19

You are developing an HTML5 page that has an element with an ID of logo. The page includes the following HTML.
<div> Logo:
<div id="logo">
</div>
</div>
You need to move the logo element lower on the page by five pixels.
Which lines of code should you use? (Each correct answer presents part of the solution. Choose two.)
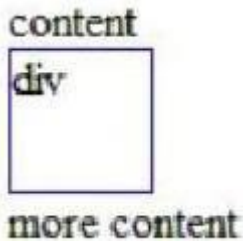
A. document.getElementById("logo") .style.position = "relative"; B.
document.getElementByld("logo").Style.top = "5px";
C. document.getElementById("logo").style.top = "-5px";
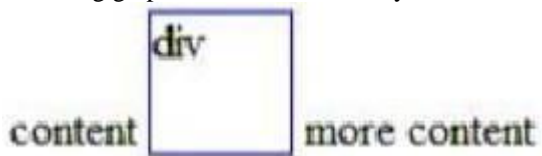D. document.getElementById("logo").style.position = "absolute";

Answer: A, B

QUESTION: 20

You are developing a web page by using HTML5 and C5S3. The page includes a <div> tag with the ID set to validate. When the page is rendered, the contents of the <div> tag appear on a line separate from the content above and below it. The rendered page resembles the following graphic.

content

div

more content

The page must be rendered so that the <div> tag is not forced to be separate from the other content. The following graphic shows the correctly rendered output.

div

content   more content

You need to ensure that the page is rendered to meet the requirement. Which line of code should you use?

A. document.getElementById("validate").style.display = "inline"; B. document.getElementById("validate").style.margin = "0";
C. document.getElementById("validate").style.padding = "0";
D. document.getElementSyId("validate").style.display = "block";

Answer: A

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